

1 **SUSPENSION DESIGN FOR ATTENUATION OF DISK FLUTTER INDUCED**
2 **TRACK MIS-REGISTRATION OF A HARD DISK DRIVE BY MANIPULATION OF**
3 **THE HINGE AND/OR LOAD BEAM**

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5 **ABSTRACT OF THE DISCLOSURE**
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7 Disk drives including suspensions and head gimbal assemblies in which the load beam
8 pitch angle is reduced exhibit a reduced disk flutter induced track mis-registration (TMR) at the
9 disk outer diameter. The reduction in the load beam pitch angle may be achieved through
10 variations in the load beam, hinge and/or mount plate configurations, relative positions and/or
11 thickness.